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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 18

Complete if Known

Application Number	09/625,384
Filing Date	July 26, 2000
First Named Inventor	Richard A. Mueller et al.
Group Art Unit	1625
Examiner Name	B. Robinson
Attorney Docket Number	001765.00054 (C-3128/1)

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
BMA		US-4,146,645	03/79	Schromm et al.	
		US-4,252,804	02/81	Joulli et al.	
		US-4,268,688	05/81	Tinker et al.	
		US-4,344,949	08/82	Hoefle et al.	
		US-4,450,164	05/84	Bristol	
		US-4,477,441	10/84	Boger et al.	
		US-4,514,391	04/85	Gordon et al.	
		US-4,548,926	10/85	Matsueda et al.	
		US-4,595,407	06/86	Carter	
		US-4,599,198	07/86	Hoover	
		US-4,616,088	10/86	Ryono et al.	
		US-4,629,724	12/86	Ryono et al.	
		US-4,634,465	01/87	Ehrenfreund et al.	
		US-4,644,055	02/87	Kettner et al.	
		US-4,652,552	03/87	Kettner et al.	
		US-4,668,769	05/87	Hoover	
		US-4,668,770	05/87	Boger et al.	
		US-4,703,037	10/87	Huang et al.	
		US-4,757,050	07/88	Natarajan et al.	
		US-4,783,776	11/88	Ishigaki et al.	
		US-4,826,815	05/89	Luly et al.	
		US-4,857,507	08/89	Rosenberg et al.	
		US-4,857,511	08/89	Rideout et al.	
		US-4,880,938	11/89	Freidinger	
		US-4,908,386	03/90	Finch et al.	
		US-4,963,530	10/90	Hemmi et al.	
		US-4,977,277	12/90	Rosenberg et al.	
		US-4,990,669	02/91	Reetz et al.	
		US-5,122,514	06/92	Boger et al.	
		US-5,122,517	06/92	Vince et al.	
		US-5,128,346	07/92	Nadzan et al.	
		US-5,132,400	07/92	Gammill et al.	
		US-5,134,123	07/92	Branca et al.	
		US-5,140,011	08/92	Branca et al.	

Examiner
Signature

B. Robinson

Date
Considered

1/5/02

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¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 Of 18

Complete if Known

Application Number 09/625,384
Filing Date July 26, 2000
First Named Inventor Richard A. Mueller et al.
Group Art Unit 1625
Examiner Name B. Robinson
Attorney Docket Number 001765.00054 (C-3128/1)

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
<i>B.R.</i>		US-5,151,438	09/92	Sham et al.	
		US-5,157,041	10/92	Handa et al.	
		US-5,194,609	03/93	Saroca et al.	
		US-5,256,783	10/93	Gokhale et al.	
		US-5,278,148	01/94	Branca et al.	
		US-5,340,828	08/94	Graham et al.	
		US-5,387,512	02/95	Balani et al.	
		US-5,413,999	05/95	Vacca et al.	
		US-5,458,889	10/95	Bourbon et al.	
		US-5,463,104	10/95	Vazquez et al.	
		US-5,475,013	12/95	Talley et al.	
		US-5,475,027	12/95	Talley et al.	
		US-5,476,874	12/95	Hungate et al.	
		US-5,482,947	01/96	Talley et al.	
		US-5,484,926	01/96	Dressman et al.	
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		US-5,510,378	04/96	Talley et al.	
		US-5,510,388	04/96	Vazquez et al.	
		US-5,510,487	04/96	Talley et al.	
		US-5,514,801	05/96	Bertenshaw et al.	
		US-5,521,219	05/96	Vazquez et al.	
		US-5,527,799	06/96	Vacca et al.	
		US-5,578,606	11/96	Vazquez et al.	
		US-5,583,132	12/96	Vazquez et al.	
		US-5,585,397	12/96	Tung et al.	
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		US-5,602,175	02/97	Talley et al.	
		US-5,610,190	03/97	Talley et al.	
		US-5,614,522	03/97	Talley et al.	
<i>B.R.</i>		US-5,620,977	04/97	Talley et al.	

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Binta Robinson

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Complete if Known		
			Application Number	09/625,384	
			Filing Date	July 26, 2000	
			First Named Inventor	Richard A. Mueller et al.	
			Group Art Unit	1625	
			Examiner Name	B. Robinson	
Sheet	3	of	18	Attorney Docket Number	001765.00054 (C-3128/1)

U.S. PATENT DOCUMENTS					
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		Number - Kind Code ² (if known)			
BMR		US-5,622,949	04/97	Talley et al.	
		US-5,639,769	06/97	Vazquez et al.	
		US-5,643,924	07/97	Talley et al.	
		US-5,648,364	07/97	Talley et al.	
		US-5,698,569	12/97	Talley et al.	
		US-5,703,076	12/97	Talley et al.	
		US-5,705,500	01/98	Getman et al.	
		US-5,708,004	01/98	Talley et al.	
		US-5,714,605	02/98	Vazquez et al.	
		US-5,723,490	03/98	Tung et al.	
		US-5,744,481	04/98	Vazquez et al.	
		US-5,750,648	05/98	Chang et al.	
		US-5,753,660	05/98	Sikorski et al.	
		US-5,756,498	05/98	Vazquez et al.	
		US-5,756,533	05/98	Getman et al.	
		US-5,756,534	05/98	Talley et al.	
		US-5,760,064	06/98	Vazquez et al.	
		US-5,760,076	06/98	Vazquez et al.	
		US-5,776,971	07/98	Getman et al.	
		US-5,786,483	07/98	Vazquez et al.	
		US-5,830,888	11/98	Getman et al.	
		US-5,830,897	11/98	Vazquez et al.	
		US-5,843,946	12/98	Vazquez et al.	
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		US-5,856,353	01/99	Tung et al.	
		US-5,948,790	09/99	Talley et al.	
		US-5,965,601	10/99	Getman et al.	
		US-5,965,588	10/99	Vazquez et al.	
		US-5,968,942	10/99	Vazquez et al.	
		US-5,968,970	10/99	Getman et al.	
		US-5,972,989	10/99	Getman et al.	
		US-5,977,137	11/99	Tung et al.	
		US-5,985,870	11/99	Getman et al.	

Examiner Signature		Date Considered	1/5/03
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Substitute for form 1449A/PTO

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Sheet	4	of	18
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Complete if Known

Application Number	09/625,384
Filing Date	July 26, 2000
First Named Inventor	Richard A. Mueller et al.
Group Art Unit	1625
Examiner Name	B. Robinson
Attorney Docket Number	001765.00054 (C-3128/1)

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Bento Robinson

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 5 of 18

Complete if Known

Application Number	09/743,460
Filing Date	August 20, 2001
First Named Inventor	Richard A. Mueller et al.
Group Art Unit	1625
Examiner Name	Z. Davis
Attorney Docket Number	001765.00054 (C-3128/1)

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
		AU A-79823/87 (Abstract Only)	04/88			
		EP 0104041 A1	03/84			
		EP 0114993 A2	08/84			
		EP 0172347 A2	02/96			
		EP 0223437 A2	05/87			
		EP 0264795 A2	04/88			
		EP 0264795 A3	04/88			
		EP 0337714 A2	10/89			
		EP 0342541 A2	11/89			
		EP 0346847 A2	12/89			
		EP 0356223 A2	02/90			
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		EP 0389898 A2	10/90			
		EP 0389898 A3	10/90			
		EP 0393445 A2	10/90			
		EP 0393457 A1	10/90			
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		EP 0480624 A1	04/92			
		EP 0480711 A1	10/91			
		EP 0480714 A2	10/91			
		EP 0541168 A1	05/93			
		EP 0580402 A2	07/93			
		EP 0617968 A1	10/94			
		EP 0691345 A2	01/96			
		EP 0691345 A3	02/99			
		GB 2184730 A	07/87			
		GB 2200115 A	07/88			

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 6 of 18

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Application Number	09/625,384
Filing Date	July 26, 2000
First Named Inventor	Richard A. Mueller et al.
Group Art Unit	1625
Examiner Name	B. Robinson
Attorney Docket Number	001765.00054 (C-3128/1)

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
		GB 2209752	05/89			
		WO 84/03044	08/84			
		WO 92/08688	05/92			
		WO 92/08699	05/92			
		WO 92/08701	05/92			
		WO 92/14703	09/92			
		WO 93/09096	05/93			
		WO 93/13066	07/93			
		WO 93/23368	11/93			
		WO 93/23379	11/93			
		WO 94/04491	03/94			
		WO 94/04492	03/94			
		WO 94/04493	03/94			
		WO 94/05639	03/94			
		WO 94/08458	04/94			
		WO 94/10133	05/94			
		WO 94/10134	05/94			
		WO 94/10136	05/94			
		WO 95/07696	03/95			
		WO 96/00068	01/96			
		WO 96/04913	02/96			
		WO 96/22287	07/96			
		WO 96/28418	09/96			
		WO 97/01349	01/97			
		WO 99/33792	04/99			
		WO95/06030	03/95			
		WOA95/33464	12/95			

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 7 of 18

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Application Number	09/625,384
Filing Date	July 26, 2000
First Named Inventor	Richard A. Mueller et al.
Group Art Unit	1625
Examiner Name	B. Robinson
Attorney Docket Number	001765.00054 (C-3128/1)

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		BUTTERWORTHS, "Handbook of Reactive Chemical Hazards", 3rd Ed., 1985, p. 295	
		A. BURGER, Med. Chem., 2nd Ed., 1960, pp. 565-601	
		Abstract No. 199, "Salvage Therapy Using the Combination of Ritonavir and Saquinavir in Patients with Advanced HIV Infection," 4th Conf Retro and Opportun Infect, Jan. 22-26, 1997, p. 101	
		Abstract No. 209, "Selection and Analysis of HIV-1 Variants With Increased Resistance to ABT-378, A Novel Protease Inhibitor," 4th Conf Retro and Opportun Infect, Jan. 22-26, 1997, p. 103	
		Abstract No. 245, "Efficacy and safety of Quadruple Combination Therapy in Treatment Experienced HIV/AIDS Patient," 4th Conf Retro and Opportun Infect, Jan. 22-26, 1997, p. 103	
		Abstract No. 257, "The Use of Antiretroviral Therapy in Association With Evolving Standards of Practice," 4th Conf Retro and Opportun Infect, Jan. 22-26, 1997, p. 111	
		Abstract No. 609, "Pharmacokinetics/pharmacodynamics of Ritonavir-Saquinavir Combination Therapy," 4th Conf Retro and Opportun Infect, Jan. 22-26, 1997, p. 177	
		Abstract No. Th.B. 934, "Combination Use of Ritonavir and Saquinavir in HIV-Infected Patients: Preliminary Safety and Activity Data," Int Conf Aids (United States), Jul. 7-12, 1996 (Program Supplement, p. 20)	
		Abstract, "Ritonavir," Bioorganic and Medicinal Chemistry, 5/3, pp. 461-462, 1997	

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		Filing Date	July 26, 2000
		First Named Inventor	Richard A. Mueller et al.
		Group Art Unit	1625
		Examiner Name	B. Robinson
Sheet 8 of 18	Attorney Docket Number	001765.00054 (C-3128/1)	

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Abstract, "Saquinavir Pharmacokinetics Alone and in Combination With Zidovudine in HIV-Infected Patients," United Kingdom, AIDS, 11/4 (F29-F33), 1997	
		Abstract, "Protease Inhibitors in Patients With HIV Disease. Clinically Important Pharmacokinetic Considerations," Clinical Pharmacokinetics, 1977, 32/3 (194-209)	
		ANDERSON, Design of Prodrugs, edited by Hans Bungard (Elsevier, Amsterdam), 1985, p. 244	
		BARRY et al, "Protease Inhibitors in Patients with HIV Disease Clinically Important Pharmacokinetic Consideration," Pharmacokinetic-Pharmacodynamic Relationships, pp. 194-209, 1997	
		BECKER, International Dictionary of Medicine and Biology, 1986, p. 2316	
		BOLIS et al, J. Med. Chem., 30, 1987, pp. 1729-37	
		BUNGAARD, Drugs of the Future, 16 (5), 1991, p. 443-458	
		C.W. POUTON et al, "Formulation of a Self-Emulsifying System for the Oral Administration of a Lipophilic Drug"	
		CABIDDU et al, "A Convenient Method for the Synthesis of 1,3-Benzoxathioles", Synthesis, 1976, pp. 797-798	
		CHARMEN et al., Pharm. Res., 1992, 9:87-93	
		CLARE et al, "Preparation of N-(3-hydroxy-1-phenyl-4-ureido-2-butyl)asparaginamides and Analogs as Retroviral Protease Inhibitors", Chem. Abst. 738:117:251771f, 1992	

Examiner Signature		Date Considered	11/5/03
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Examiner Name	B. Robinson
Attorney Docket Number	001765.00054 (C-3128/1)

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		COLE et al, "An Improved Method for the Synthesis of 2,2-Disubstituted and 2-Monosubstituted 1,3-Benzodioxoles", Department of Applied Organic Chemistry	
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		E. E. GILBERT, "Recent Developments in Preparative Sulfonation and Sulfation", Synthesis, International Journal of Methods in Synthetic Organic Chemistry, No. 1: Sep. (1969).	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	09/625,384
				Filing Date	July 26, 2000
				First Named Inventor	Richard A. Mueller et al.
				Group Art Unit	1625
				Examiner Name	B. Robinson
(use as many sheets as necessary)				Attorney Docket Number	001765.00054 (C-3128/1)
Sheet	10	of	18		

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		ERICKSON et al, "Design Activity, and 2.8 Å Crystal Structure of a C ₂ Symmetric Inhibitor Complexed to HIV-1 Protease, Science, Vol. 249, August 1990, pp. 527-533	
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		HARGRAVE, J. Med. Chem., 34, 1991, pp. 2231-2241	
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		J. Med. Chem., 34:2692-2701, 1991	
		J. R. PARIKH, J. Amer. Chem. Soc., 89, 1967, pp. 5505-5507	
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		LAURENCE, J. et al, The Lancet, 1 Aug. 1992, vol. 340, pp. 273-274	
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		First Named Inventor	Richard A. Mueller et al.
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		MILLER et al, Science, 246, 1989, p. 1149	
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		First Named Inventor	Richard A. Mueller et al.
		Group Art Unit	1625
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Sheet	15	of	18
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		Pure Appl. Chem., 45, 13-30 (1976).	
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Sheet 16 of 18

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		S. H. YALKOWSKY, "Drugs and the Pharmaceutical Sciences: Techniques of Solubilization of Drugs", Marcel, Drugs and the Pharmaceutical Science, Vol. 12, 1981	
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		TAM et al., "Intriguing Structure-Activity Relations Underlie the Potent Inhibition of HIV Protease by Norstatine Based Peptides", J. Med. Chem. 35:1318-1320 (1992).	
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